CLAIMS

1. A security device (2) for limiting opening of an inwardly-openable door (4) in a building comprising:

keep means (6), comprising an elongate block (20), adapted to be secured to a region of an inside surface (8) of the door (4); and

arm means (12) adapted to be swivelably secured at a first end (14) thereof to an interior surface (16) of the building fixed relative to the door (4), the arm means (12) being adapted to be manually swivelled between a first position, clear of the door (4), and a second position in which a second end (18) of the arm means (12) abuttingly engages an outwardly open slot (36) at a first end of the elongate block (20) of the keep means (6) to limit opening of the door (4),

characterised in that the elongate block (20) incorporates an axial cylindrical recess (38) having an end open to the slot (36) and in which is received a piston means (40) and a first spring means, the first spring means being provided to absorb energy upon engagement of the second end (18) of the arm means (12) with the keep means (6), the piston means (40) being adapted to be contacted, and displaced to a limited extent in the axial cylindrical recess against the first spring means (42), by the second end (18) of the arm means (12) when forceful pressure is applied to the door (4) to attempt opening of the door (4).

2. A device as claimed in claim 1, characterised in that the spring means additionally serves to recoil and

effect or assist closure of the door (4) in event of the door (4) being undesirably jolted inwardly from outside.

3. A device as claimed in claim 1 or 2, characterised in that the region of the inside surface (8) of the door (4) to which the keep means (6) is adapted to be secured is adapted to be adjacent to a hinged edge (10) of the door (4).

4. A device as claimed in any preceding claim, characterised in that the interior surface (16) of the building to which the arm means (12) is adapted to be swivelably secured is a wall of the building adjacent to a hinged edge (10) of the door (4), and such as extending at substantially ninety degrees to the door (4) when the door (4) is closed.

5. A device as claimed in any preceding claim, characterised in that intermediate support means is provided for securing to the wall and adapted to have the arm means (12) swivelably secured thereto.

6. A device as claimed in claim 5, characterised in that the intermediate support means is of block form.

7. A device as claimed in any preceding claim, characterised in that the outwardly open slot (36) of the elongate block (20) is of U-shape.

8. A device as claimed in any preceding claim, characterised in that the elongate block (20) is adapted to be secured to the region of the inside surface (8) of the door (4) by way of a first base plate (12) to which it is secured.

9. A device as claimed in claim 8, characterised in that the first base plate (12) is apertured to receive at least one securing means (24).

10. A device as claimed in claim 9, characterised in that the at least one securing means is a threaded fastener (24).

11. A device as claimed in any preceding claim, characterised in that the piston means (40) of the elongate block (20) has a first face (44) provided with a recess for receiving the second end (18) of the arm means (12).

12. A device as claimed in claim 11, characterised in that the piston means (40) has a second face, opposite the first face (44), provided with a protrusion for accommodating the first spring means (42).

13. A device as claimed in any preceding claim, characterised in that the outwardly open slot at the first end region of the elongate block (20) has an end portion (54) sloping inwardly towards the piston means (40) in the axial cylindrical recess to direct the second end (18) of the arm means (12) into alignment with the piston means (40) and the axial cylindrical recess.

14. A device as claimed in any preceding claim, characterised in that the axial cylindrical recess (38) extends through the elongate block (20) to a second end region (48) of the elongate block (20) opposite to the first end region of the block.

15. A device as claimed in any preceding claim, characterised in that the axial cylindrical recess (38) is closed by a cap means (50).

16. A device as claimed in claim 15, characterised in that the cap means (50) is threaded into the second end region of the elongate block (20).

17. A device as claimed in claim 15, characterised in that the cap means is threaded onto the second end region of the elongate block (20).

18. A device as claimed in any preceding claim, characterised in that the arm means (12), at least at the second end (18) thereof, is of substantially solid cylindrical form.

19. A device as claimed in any preceding claim, characterised in that the first end (14) of the arm means (12) is provided with a bearing component (56), secured thereto or integral therewith, which is rotatable in a mounting component adapted to be secured to the interior surface (16) of the building fixed relative to the door (4).

20. A device as claimed in claim 19, characterised in that the bearing component (56) is arranged for rotation in the mounting component about a substantially vertical axis, when the mounting component is secured to the interior surface (16) of the building, and such that the arm means (12) is able to be swivelled between the first and second positions in a substantially horizontal plane.

21. A device as claimed in claim 19 or 20, characterised in that the mounting component comprises upper (58) and

lower (60) portions journalled to rotatably receive the bearing component (56) therebetween and secured to a second base plate (62) which is apertured to receive one or more securing means (64).

22. A device as claimed in claim 21, characterised in that the securing means comprises threaded fasteners (64).

23. A device as claimed in any one of claims 19 to 22, characterised in that a second spring means (76) is incorporated with the arm means (12) such that the first end (14) of the arm means (12) is slidably secured to the bearing component (56) against the second spring means (76) and with the arm means (12) displaceable in its axial direction relative to the bearing component (56).

24. A device as claimed in claim 23, characterised in that the second spring means (76) reinforces the function of the first spring means (42).

25. A device as claimed in any one of claims 23 to 24, characterised in that switch means (86) is incorporated in the bearing component (56) and adapted to be actuated by axial displacement of the arm means (12) relative to the bearing component (56) against the second spring means (76) to operate an alarm means (88) to provide a warning that forced entry through the door (4) is being attempted.

26. A device as claimed in claim 25, characterised in that the alarm means (88) is an audible alarm means.

27. A device as claimed in claim 25 or 26, characterised in that the alarm means is incorporated in a cavity in the mounting component.

28. A device as claimed in claim 25 or 26, characterised in that the alarm means is at a remote location.

29. A device as claimed in any one of claims 19 to 28, characterised in that one or more batteries (90) are incorporated in a cavity provided in the mounting component.

30. A device as claimed in claim 29, characterised in that the cavity is suitably closed by a cap means which threadedly engages the mounting component.

31. A device as claimed in any one of claims 25 to 30, characterised in that the second spring means (76) has a spring rate which is lower than that of the first spring means (42), whereby the switch means (86) is actuated before the first spring means (42) is fully compressed.

32. A device as claimed in any preceding claim, characterised in that the device substantially comprises metal.

33. A device as claimed in claim 32, characterised in that the metal is selected from brass and aluminium.

34. A device as claimed in claim 35, characterised in that the aluminium is surface-anodised.

35. A device as claimed in any one of claims 23 to 34, characterised in that the second spring means is a compression spring.

36. A device as claimed in any preceding claim, characterised in that the first spring means is a compression spring.